

Product datasheet

Specifications



photo-electric sensor - XUB - emitter - laser - 12..24VDC - M12

XUBLAKCNM12T

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor transmitter
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Thru beam
Material	Plastic
Supply circuit type	DC
Wiring technique	3-wire
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Red laser thru beam class 1 670 nm conforming to IEC 60825-1
[Sn] nominal sensing distance	0...100 m thru beam need a receiver

Complementary

Enclosure material	PBT
Lens material	PMMA
Add on input	Test by emission breaking
Status LED	1 LED (green) for supply on
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 1500 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	25 mA no-load
Maximum delay first up	80 ms
Maximum delay response	0.4 ms
Maximum delay recovery	0.4 ms
Diameter	18 mm

Length	66 mm
Net weight	0.04 kg

Environment

Product certifications	UL CE CSA
Ambient air temperature for operation	-10...45 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP67 double insulation conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	42.0 g
Package 1 Height	3.4 cm
Package 1 width	12.8 cm
Package 1 Length	7.4 cm
Unit Type of Package 2	S02
Number of Units in Package 2	35
Package 2 Weight	1.796 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

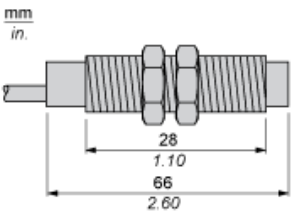
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

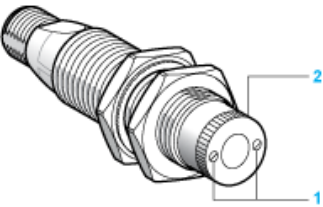
Warranty	18 months
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Dimensions



Mounting

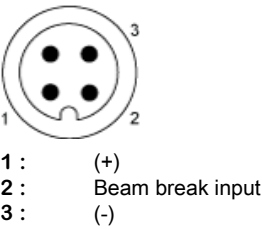
Adjustment



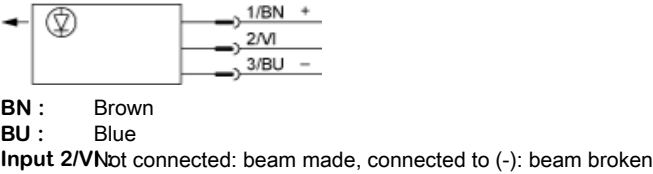
- (1) Adjust the focusing point of the laser beam by rotating the serrated sleeve
- (2) Located on the face of the sensor. Re-tighten fixing screws

Wiring Schemes

M12 Connector

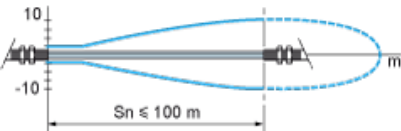


Transmitter

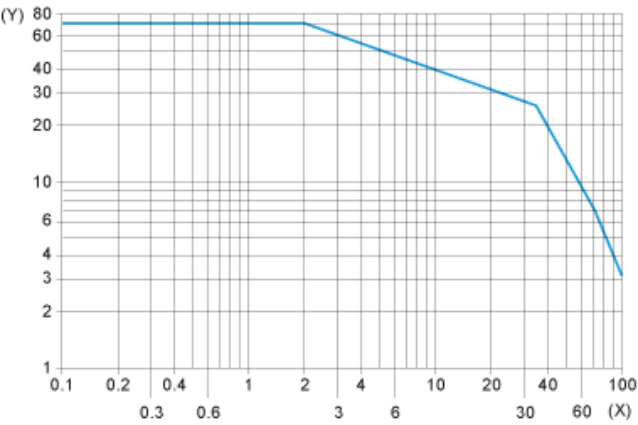


Curves

Detection Curve (Set to Infinity)

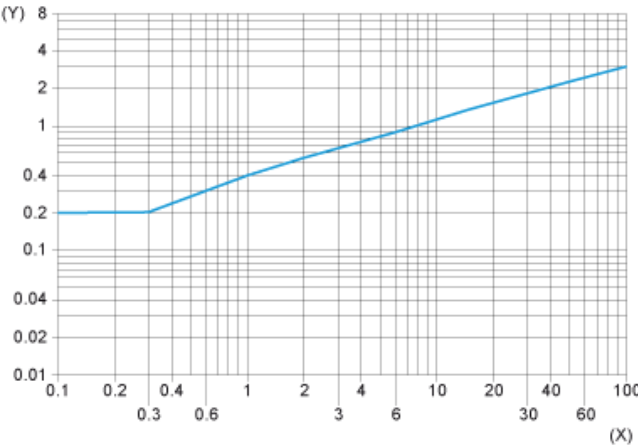


Excess Gain Curve



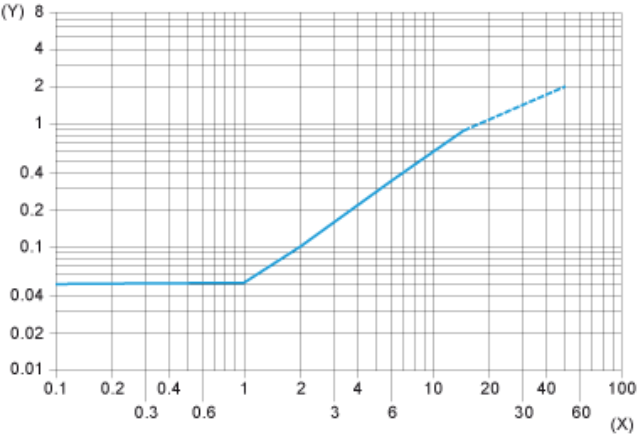
(X) Distance (m)
(Y) Gain

Standard Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)

Detection Limit Curve



(X) Distance focusing point (m)
(Y) Minimum size of the object to be detected (mm)